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President's Message

I take this opportunity to welcome you on behalf of the administration, faculty, staff and students at Florida Technological University. While we haven't been around as long as the Central Florida Fair, FTU nevertheless has become in a few short years an integral part of the community.

In the five years since the first group of students started classes at the university, the interest and spirit of the Central Florida community have become a strong and welcome influence on FTU. We in turn want to be a significant part of the community in order to provide appropriate educational opportunities to the people of this area of the state.

Those of us on the campus deeply appreciate the support given by the people of Central Florida during the planning and, subsequently, the operation of the university, and we extend a standing invitation to each of you to visit the campus of the university.

Charles N. Millican

CHARLES N. MILLICAN

Community Service University's Key Aim

THERE ARE many ways to serve one's community. Florida Technological University has spent five years providing an education for members of the Central Florida community... five years providing the equipment and facilities of a modern institution of higher education to elementary and high school students... five years sponsoring community service projects and fund raising efforts instituted by active and concerned FTU students... and five years providing the local job market with a host of students prepared to take a place in the work-a-day world.

The presence of FTU in a growing community like Central Florida presents an unequalled opportunity of individual growth and improvement. When the flux of engineers, cast off from the space program, needed retraining, FTU was here to fill in the gap with the RETRO program. When the local businessman, teacher, technician or housewife decides to seek a higher degree, FTU is waiting with classroom opportunities and job opportunities as well. For the high school student, who can not afford to go away to school, FTU is here, located for the greatest commuter convenience. When the veteran returns to further his education, FTU is close, a place where he can take advantage of the GI Bill and other financial aid programs which help him care for his family while he learns.

FTU is the perfect accent for the modern, fast-moving community that Central Florida has become.

Dateline

By David Foster

Honolulu, Hawaii...

The University of Hawaii has come up with a new course offering that may appeal to students complaining of air pollution and worsening traffic congestion. The course, entitled Survival 495, offers two credits per semester to commuters who can find their way to and from the campus without using a car.

Gainesville...

In a move that surprised absolutely no one, University of Florida President Stephen C. O'Connell managed last month to kick off campus the now ill-fated campus newspaper, the Florida Alligator. The paper has now become an independent nonprofit corporation governed by a seven-member board of directors. The move to eject the Alligator initiated a string of events, including a student rally with almost 2,000 persons attending and a "Save the Alligator" fund drive.

Florida State University System...

Enrollment expansion almost ground to a halt. At FTU, projected enrollments have been drastically cut by almost 300 per cent, and according to Linton E. Gunter, head of the University of Florida Self-Study Office, enrollment there "would do well to keep its present level." The decrease has occurred at universities throughout the country. The decrease has been explained by a reduced interest in four-year universities among youth and the fact that the high population of youth in the 18-19 age bracket produced by the post-World War II baby boom is beginning to dwindle. The baby boom, which triggered the mushrooming growth of colleges, peaked in 1958.

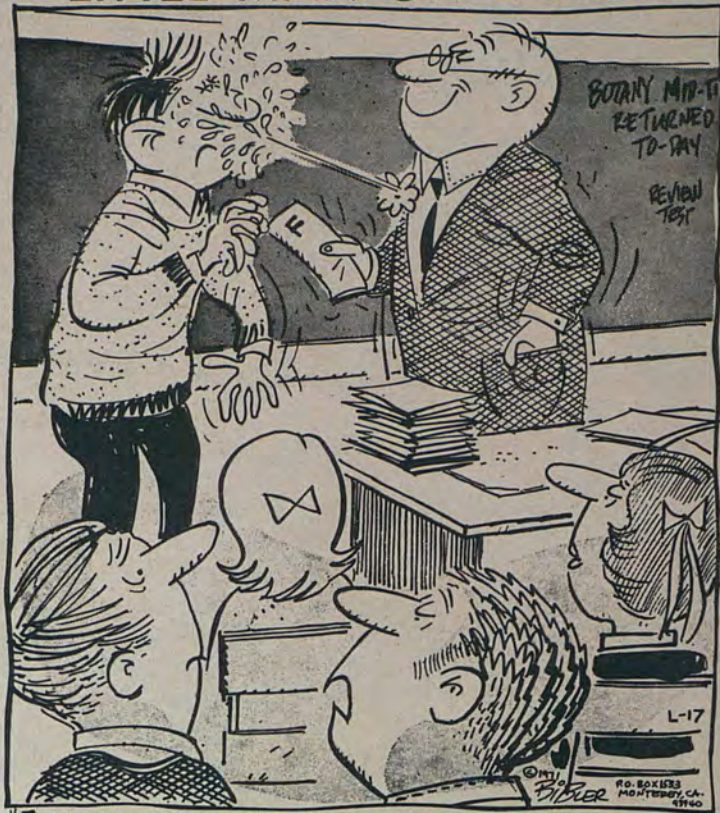
Gainesville (reported in The New York Times)...

Scientists at the University of Florida have invented a revolutionary new tomato which can be buffeted by machines and still look good enough to eat a week later, in a supermarket 1,500 miles away. "We had to remake the entire plant," one of the researchers said. Normal tomato characteristics, such as tender skin and soft pulp bursting with juice had stood in the way of mass market distribution. What next, polyester peaches or permanent press lettuce?

Orlando (Orlando Area Chamber of Commerce)...

A release here has reported that a campaign to quash an alleged "no-room-rumor" is gaining momentum. The campaign involves false rumors that motels and hotels in the Orlando area near Walt Disney World are full. Actually, more than 16,000 rooms are available.

LITTLE MAN ON CAMPUS



"I ENJOY A CLASS A LOT MORE WHERE TH' PROF HAS A SENSE OF HUMOR."

Ed. To People Programs Expand Throughout Area

Expansion of the "education to the people" programs has begun on the Cocoa campus of Brevard Community College.

FTU Professors Offer Experience

The college student who sees in his professors a collection of degrees, exams and lectures and nothing else has closed his mind to the possibility that the man standing before the class has something more to offer in the way of experience.

The case for experience rests firmly at Florida Technological University, where the doubters can find such diverse backgrounds as those offered by Dr. Newel Comish, James E. Couch and Dr. Ernst Goldstein, to mention only three of many. All can call upon years of work in the so-called "world of reality."

Comish is a prime example of the business executive who has returned to the campus to impart much of what he learned to those headed in the other direction. Before his appointment to FTU's College of Business Administration, he spent nine years managing the employment and training development division for the JC Penney Company. The Oregon native jumped into the business world from the University of Washington, where he had been an associate professor after receiving his Ph.D. from Ohio State.

"I feel the experience has been and continues to be put to good use in the courses I teach. On the other hand, there are many teachers with no practical experience, and they do an excellent job. But I feel the exposure to business practices, at least in my field, is a great help."

A background in public affairs and journalism stretching over 10 years are among the credentials offered by James Couch, who doubles as an assistant professor of communication, and advisor to student publications.

An affable man who counts among his diverse talents a

working knowledge of Japanese and Oriental cooking, Couch was for five years a press officer with U.S. embassies in Laos and Japan. He experienced the other side of the coin as a working newsman with Tokyo's leading English language daily, "The Japan Times."

Taking a look at the outside versus the inside, Couch confirmed that his own professional background provides not only a spectrum of source material, but "a lot of good stories."

He is a firm believer that practical experience is a must for teachers who tackle journalism courses, and he is capable of telling it how it is to students who might have a glorified image of that vocation.

"It's fine to be able to handle the written work well, but there's a lot more to the profession," said Couch. "The nitty-gritty aspects sometimes come as a great shock to the bright-eyed young reporter."

Couch returned to school and took his master's degree at Florida State University before his FTU appointment in 1970.

Forty years as a Ph.D. is only one of many factors that have brought experience and teaching ability to Dr. Ernst Goldstein, who traveled nearly around the world to reach FTU.

A genial man with a charming accent that clearly identifies his German heritage, he has earned a well-deserved reputation through his work in metallurgy in the classroom and in industry. Among his many honors is membership in the New York Academy of Science.

Each of the three faculty members has a wealth of practical experience to bring to students. Joining them are many others who likewise can call upon a storehouse of knowledge, much of it earned the hard way.

Through courses offered there by FTU, students enrolled in either school may take courses offered by the other.

Faculty from FTU and BCC also will interchange in the classroom by teaching courses from the other's curriculum.

"This is one more evidence of the fine relationship that has existed between FTU and BCC over the past several years," President Charles N. Millican declared.

FTU has operated a resident center on the BCC campus since 1969, with undergraduate courses in business administration, education and general studies.

Under the new system, BCC students will be able to enroll in FTU upper level (junior and senior) courses if qualified, while those already attending FTU classes may concurrently enroll in BCC courses.

A prime attraction of the new programs will be the possibility that students enrolled in FTU courses at BCC will be able to complete all requirements for a baccalaureate degree and never travel to the main FTU campus. The possibility would exist only for certain students, depending upon their major field of study, it was pointed out.

A similar arrangement with other community colleges in the FTU commuting area is also under consideration. Evaluation of the Brevard program will determine to what extent other programs will be developed.

Produced by FuTure newspaper of Florida Technological University in cooperation with the FTU department of public information.



HFA Building Construction To Be Completed In 1974

Construction of a much-needed Humanities and Fine Arts Complex at FTU is under way, and completion is expected by early 1974.

The complex will include two buildings, a five-story classroom building and a one-story music rehearsal building. Total project cost is estimated at \$2.75 million.

The 70,000 square-foot main building will house permanent music practice rooms — specially constructed for acoustical control — on the first floor.

The second floor will contain

classrooms, a language laboratory, an audio-visual center, a student vending area and lounge and offices for faculty advisors.

The third floor will temporarily house art studios and a gallery. When permanent art facilities are constructed the flexibility of the building will allow a quick change of the floor plan to permit classrooms, offices or other special spaces in the former art area.

The fourth and fifth floors will house faculty and department offices for art, English, history, humanities,

foreign languages, theatre and the dean. Seminar rooms and offices for graduate assistants will be located on the fourth floor.

The 12,000 square-foot music rehearsal building will feature a multipurpose rehearsal space which will also be used for recitals, lectures and other public events. It will also house two music libraries, a small practice room and faculty offices.

Still ahead in new construction is a \$2.3 million Biological Sciences building to be occupied primarily by the College of Natural Sciences, to be followed by a College of Education complex that will include a teaching gymnasium. The total price tag on the latter is estimated at \$4.8 million.

Also ahead in the next two years in a \$1.6 million expansion and extension of FTU utilities to service the new buildings with air conditioning and heat. A half-million dollar central receiving building is planned, and a \$400,000 addition to outdoor physical education facilities will include a baseball diamond and soccer field.

By 1975, the total value of construction and improvements on the FTU campus will be nearly \$33 million, according to Fred E. Clayton, director of university physical planning. The forecast for the future includes buildings for the Colleges of Social Science and Business Administration, a new health center and a bookstore, Clayton added.

Engineering Institute Established At FTU

Charged with the responsibility of improving the quality of the environment through research, education, public service and promotion of cooperation among industrial, governmental and private agencies, an Environmental Systems Engineering Institute has been established at Florida Technological University.

FTU President Charles N. Millican has termed formation of the institute "a major step in the development of the university and its contributions to the community." The FTU team involved in the concept, he added, "consists of a group of extremely capable professionals."

Dr. Marty Wanielista, associate professor of engineering, is director of the institute. Wanielista has been a member of the FTU faculty since September 1970. He earned his doctoral degree in environmental systems engineering from Cornell University. He also holds a master's degree in sanitary engineering and a bachelor's degree in civil engineering.

The establishment of the Environmental Systems Engineering Institute comes at a critical time when national, state and local interests are concerned over the general environmental situations and the solutions to these problems.

MAX-Today's Car Of The Future

An indication of just how far student ingenuity can go is found in a small garage-like building on the FTU campus. Inside is MAX, the creation of a group of engineering students who brought national recognition to the university last summer during the first intercollegiate Urban Vehicle Design Competition.

MAX, who began life as a normal 1972 Gremlin, has since been transformed into a hybrid with natural gas innards, an anti-skid brake system and a shock-tested bumper.

The new MAX, appropriately emblazoned with decals that make a Daytona 500 car look naked, took top safety honors in the "Clean Car" contest.

In the competition held at General Motors' Proving Ground at Milford, Mich., MAX faced entries from more than 70 colleges and universities in the United States and Canada.

To prepare for the test,

student members of FTU's Mechanical Engineering and Aerospace Sciences Club (MEAS) worked night and day. When the time arrived, they trucked MAX north for the showdown. They were not disappointed.

Prominently displayed in the College of Engineering is a plaque recognizing FTU's winning effort in the safety category.

Getting MAX ready for the showdown in Michigan was not a simple task. Student Government granted money to purchase the original car, and some welcome assistance from off campus provided the extra push for the trip.

Dr. Bruce Nimmo, MEAS advisor, credited a number of Central Florida firms (including Florida Gas, Sears Roebuck and Co., Ralph Pillow Motors, B & B Engineering of Bithlo and Ryder Truck Rental of Orlando) for helping MAX make the journey in proper fashion.

Involvement Multi-Faceted

It goes without saying that without students, a campus would be mighty bleak. At FTU, where students come and go continually due to the commuter nature of the university, bleakness doesn't fit into the picture.

While the university does have a daily ebb and flow of thousands of students from all directions, many find time in busy schedules to become involved in more than books, libraries and labs. The outlets for some of that stored energy abound at FTU.

Organizations for students cover a wide spectrum of interests. The list of clubs runs from astronomy to zoology, with a total of 90 in all.

There's a Chess Club for budding Bobby Fischers and the Outing Club for the Nature-minded.

Religion plays an important role in campus life, as attested by the Newman Club, Crusade for Christ, Fellowship of Christian Athletes and others.

FTU has 21 fraternities and sororities that range alphabetically from Alpha Tau Omega to Zeta Tau Alpha.

Along with other social and service clubs of varying natures, most FTU student groups are involved in projects on and off the campus that serve to aid others. Some projects are fund-raisers, like the March of Dimes, the Cerebral Palsy marathon, the annual "Rent-a-Santa" operation for

Muscular Dystrophy and the like.

Other interests find clubs helping community agencies in relief drives or lending talents to special projects throughout Central Florida.

Student Government offers a look at campus-level politics. Each fall, students go to the polls to choose senators from each of FTU's six colleges. In the spring, a president and vice president are elected to guide the operation, which includes an annual budget of more than \$100,000. Direct liaison exists between Student Government leaders and key officials at the university.

On the cultural side, there is the Village Center, the focal point of student activity. A Village Center Board, which consists primarily of students, operates on a budget that permits inviting well-known speakers and performers to campus on a regular basis.

The Village Center itself, which recently was doubled in size, offers assembly rooms, recreation areas, a large cafeteria, study lounges, offices for student organizations, a health center and an art gallery. Movies, little theatre productions, and most student dances are staged there.

Also on the cultural side are productions by the FTU theatre department, art exhibits and musical presentations, all featuring students.

Europe Study Tours Planned In Summer

College students and postgraduates interested in travel while furthering their education can take advantage of two summer programs being offered this year by FTU.

One will provide 10 weeks of study for journalism students and will take them to London, Paris, Nice, Rome, Florence, Vienna, Budapest, West Berlin, Prague, Venice and Copenhagen. Students may earn as much as 12 hours of credit in feature writing, press photography and international communication.

Another program offers up to 16 credit hours of study in

Spain, where students will spend time in Oviedo and Seville, polishing up their language skills and absorbing the culture of the country.

The journalism group is scheduled to depart June 18, and the Summer in Spain group on June 28, both from Orlando.

Details may be obtained by contacting Summer Journalism Tour, Department of Communication, or Director, Summer Study Program, Department of Foreign Languages. Both should be addressed to FTU, Box 25,000, Orlando, Fla. 32816.



Six Colleges Offer Degrees



CHARLES GILLILAND

Business

The collegiate program in business administration is designed to give the graduate a broad understanding of business concepts and relations.

Included in the program of study are certain analytical tools used in resolving business problems, as well as exposure to the various business functions such as marketing and management.

The program is intended to provide a background for a logical approach to decision-making and the resolution of business problems. In addition, the student is given an opportunity to complete a major in one of the functional areas of business.

The College of Business Administration now offers undergraduate majors in accountancy, business administration, economics, finance, management, marketing and quantitative business analysis.

The college also offers two master's programs, the Master of Business Administration and the Master of Science in Management. The graduate programs provide an opportunity for the superior student to carry out professional study in business administration at the graduate level.

Education

The College of Education at FTU is organized as a professional college within the university. The academic program is primarily concerned with three broad areas: environmental studies, specialized preparation and professional preparation.

A broad range of undergraduate majors is available for individuals who intend to teach in Florida's public schools. They are:

Elementary Education

(includes certification options for early childhood education and exceptional child education)

Secondary Education

biology, business education, chemistry, English language arts, foreign language, mathematics, physics,

social sciences, speech. Comprehensive programs are offered in library media, music education and visual arts. (These lead to teacher certification in kindergarten through grade 12.)

A graduate program leading to the Master of Education degree is also available in many of the above disciplines.



CALVIN MILLER

Engineering

The College of Engineering offers curricula leading to bachelor's and master's degrees in a wide variety of disciplinary areas. Each curriculum is directed toward professional objectives.

The Bachelor of Science in Engineering degree is awarded after satisfactory completion of a curriculum of 192 quarter hours, including environmental studies courses, an engineering core curriculum and both required and elective courses of study in a selected engineering option.

Graduates of this program may pursue a wide variety of careers in private practice. Industry, education and government.



ROBERT KERSTEN

Programs in environmental engineering, electrical engineering, industrial engineering and mechanical engineering have been accredited by the Engineer's Council for Professional Development.

In fall 1972 the College of Engineering began a new program in engineering technology specifically designed for graduates of Florida community colleges in related programs. Satisfactory completion of this program leads to the Bachelor of Engineering Technology degree.

The College of Engineering offers graduate work leading to the Master of Science in Engineering, Master of Science or Master of Science in Environmental Systems Management degrees. The programs are designed to provide advanced professional engineering education.

Humanities

The College of Humanities and Fine Arts offers majors in art, English, foreign languages, history, humanities, music, philosophy, pre-law and theatre. A variety of concentrations are available in these areas.

Art: Concentration in art history or a studio concentration (such as photography, painting, printmaking, drawing, graphic design, sculpture and 3-dimensional design, cinematography, ceramics and crafts.)

English: Concentration in literature or creative writing.

Foreign languages: Concentration in French or Spanish, courses in German and Russian and Italian.

History: Concentration in American, European or Russian history.

Humanities: An interdisciplinary approach to all the areas of humanities and fine arts.

Music: Concentration in theory and/or applied music.

Philosophy: Courses in the various aspects of the discipline.

Theatre: Concentration in theatre history and criticism, technical history and design, acting and directing or film.

Furthermore, the college has instituted a program in which liberal arts and business are combined. A large group of liberal arts alumni now work in fiscal or management fields. With the combined degree in liberal arts and business, the student will be prepared to work in administrative positions and will also have the opportunity of taking a graduate degree in business.

By combining liberal arts studies with studies in business, the student will receive a liberal arts education to develop his or



CHARLES N. MICARELLI

her potential as an individual and will have more job opportunities available upon graduation.

Natural Sciences

The College of Natural Sciences is comprised of five departments, with 20 areas of concentration at the undergraduate level. Also offered are master's degree programs in biological sciences, and this summer, in computer science.

Pre-professional programs are available to prepare students for further study in schools of dentistry, medicine, nursing, veterinary medicine, optometry and pharmacy.

Under the department of biological sciences, there are concentrations in biology, biotechnology, botany, fresh water ecology, microbiology and zoology.

The department of allied health sciences offers programs in inhalation therapy, medical records administration and medical technology.

Students interested in the mathematical sciences have three options: mathematics, computer science and statistics.



BERNARD OSTLE

Other departments in the college that offer study for the Bachelor of Science degree are chemistry and physics.

In order to meet requirements for the B.S. degree through the college, a student must earn at least a year of credits in mathematical sciences, biological sciences and physical sciences.

Social Sciences

The College of Social Sciences offers undergraduate programs in communication-communicative disorders, journalism, radio-television-film and speech; political science--American government, comparative foreign politics, criminal justice, pre-law and public administration; psychology, and sociology--anthropology and social welfare.

Also within the college is the department of aerospace studies, which affords a student the opportunity of obtaining a commission in the U. S. Air Force.

A Master of Arts in Communication is available for students interested in



BERNARD KISSEL

postgraduate education. Classwork includes a basic core in communication theory, informational and educational systems and research. Other courses may be selected to prepare students to enter a communication-related profession, the teaching field or an advanced doctoral program.

Beginning this September, the political science department will inaugurate a Master of Public Policy degree program. The first of its kind in the Southeast, the M.P.P. will stress the formulation, development and implementation stages of public policy decision-making.

In psychology, students may obtain a Master of Science degree with emphasis in industrial or community psychology. The community psychology program encompasses subareas in school psychology, correctional psychology or mental health.

Both programs emphasize the application of basic psychology to applied settings. Both take two years for a full-time student to complete and offer practical as well as formal academic training.

General Studies

The General Studies area is a universitywide general-purpose program leading to either a Bachelor of Arts degree or a Bachelor of Science degree in general studies. The selection of courses within the program determines whether the arts or the science degree is awarded.

The General Studies program is designed for a liberal education and academic flexibility. It combines numerous courses in all major areas that are, in turn, structured into an individual program for the student who desires a liberal, nonprofessional education covering several fields.

The program also serves as a means for students to begin a productive education at FTU while deciding upon a professional area.

Course areas open to General Studies students include allied health sciences, behavioral sciences, biological sciences, business administration, communications, education, engineering, fine arts, languages, humanities, mathematical sciences, physical sciences and social science.



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Florida Technological University

Write: Director of Admissions
Box 25000 Orlando, Florida 32816
Or phone: 305-275-2511

BUSINESS ADMINISTRATION

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• SOCIAL SCIENCES